Consolidation Quiz

1. Express in exponential form:

a) log525=2 b) log20.5=-1

2. Express in logarithmic form:

a) 23=8 b) 1251/3=5

3. Evaluate

a) log327 b) log216-log232 c) log7√7

4. Why are log0 and log-3 undefined?

5. What is the relationship between the graph of a function and the graph of its inverse?

6. Graph y=3x and y=log3x on the same set of axes. Consider and label the x and y-intercepts, asymptotes and at least one other point on each graph.

D: -3≤x≤6

R: -3≤y≤6

7. Evaluate to 2 decimal places:

a) 3x=119 b)72x=300

Answers on next pages.

Consolidation Quiz Answers

1. Express in exponential form:

1.  b) 

2. Express in logarithmic form:

1.  b) 

3. Evaluate

1.  b)  c) 

4. Why are log0 and log-3 undefined?

 

**There are no exponents that would result in zero or a negative value.**

5. What is the relationship between the graph of a function and the graph of its inverse?

**Graph of function and its inverse are reflections in the line y=x.**

6. Graph y=3x and y=log3x on the same set of axes. Consider and label the x and y-intercepts, asymptotes and at least one other point on each graph.

D: -3≤x≤6

R: -3≤y≤6





7. Evaluate to 2 decimal places:

1.  b) 